

NOVEMBER/DECEMBER 2025

**FEL62/CEL52 — CELLULAR MOBILE
COMMUNICATION**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Explain EDGE.
2. Define downlink.
3. Define mobile controlled handoff.
4. What is roaming?
5. Define MAP with an example.
6. Define short message relay layer.
7. Define wireless session protocol.
8. Write short notes on wireless markup language.
9. Define TR-45 Service.
10. Define EPOC.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss about the third generation wireless systems.

Or

- (b) Write short notes on AMPS.

12. (a) Describe the roaming management.

Or

- (b) Explain the mobile data base station.

13. (a) Write the MAP protocol machine.

Or

- (b) Describe the HLR failure restoration.

14. (a) Write about the wireless transaction protocol.

Or

- (b) Discuss about wireless telephony application.

15. (a) Discuss about the cellular based system.

Or

- (b) Explain the impact on mobile operators.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the digital cellular system.

17. What is handoff? Explain the handoff procedure.

18. Draw the GSM Architecture and explain it.

19. Discuss about the wireless application environment.

20. Describe the wireless local loop technologies.

